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MARKET SURVEY OF THE

PIG INTERNATIONAL

AUDIENCE

Geographic Analysis of:

- Pig Production Volume; Changes Expected
- Breeding Stock Sources, Facilities
- Pig Feeding Methods
- Pig Health Problems, Control Practices
- Pig Housing; Sources
- Pig Equipment; Sources, Plans To Buy
- Other Information

December 1986

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NOTE: The survey questionnaire at the back of this report can serve as a table of contents since the **question numbers** MATCH the numbers of the corresponding answers on pages 5 through 37.

Highlights are on pages 3 and 4.

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PIG INTERNATIONAL MARKET SURVEY

Purpose of Survey

The main purpose of this 1986 survey of the PIG INTERNATIONAL audience was to update the bulk of the market information collected in 1983, and to permit measurements of intervening changes as a guide to the future.

SURVEY METHOD

Sample Design:

Every nth name was computer-selected from the approximately 9,678 names comprising that portion of the October 1985 PIG INTERNATIONAL BPA qualified circulation list (excluding the Caribbean area) classified as "Pig/Hog Producers" or "Pig/Hog Breeders." The value of n was such as to cover this list and to provide some 1,400 names. The list was arranged in country number sequence during the nth name extraction.

Sample Size:

	Combined Areas	Europe	Asia/Pacific and Africa
Number in mailing sample.....	1,400	552	848
Number of usable returns.....	783	319	464
Number of unusable returns....	25	9	16
Number of returns.....	808	328	480
Percent response.....	57.7%	59.4%	56.6%

Respondents replied without a tangible incentive, and, instead, furnished their own international airmail postage.

Questionnaire Design:

The questionnaire - at the back of this report - was designed to obtain the information felt most needed by the PIG INTERNATIONAL staff. The order, arrangement, and wording of the questions were guided by generally accepted mail survey technique.

Mailing Procedure:

Computer-printed control cards containing the survey sample names and other information were numbered consecutively. Each questionnaire mailed was also numbered to match the number assigned the recipient on the card.

The first mailing was made on September 11 1985. On October 2nd a postal card reminder was mailed to each person on the sample list.

A follow-up questionnaire was mailed on December 10th to all non-respondents.

A third questionnaire - second follow-up - identical to those in the earlier mailings was mailed to second mailing non-respondents on March 18 1986.

Tabulation and Report Writing:

The survey returns were computer-tabulated by Analytical Computer Service, Inc., Chicago. The Watt Publishing Co. Research Section wrote this report.

PIG INTERNATIONAL MARKET SURVEY

HIGHLIGHTS

1. PIG INTERNATIONAL producers had a median inventory of 200 sows per farrower at survey time - winter/spring 1986 - up from 180 in a survey reported in 1983, 12 boars - up from 10, and a median of 1,500 pigs of all types per producer - up from 1,400. In the preceding twelve months producers sold a median of 1,225 weaned pigs per seller - up from 1,200, and a median of 2,500 finished pigs per seller - up from 2,080. 52% of all producers expected to expand their pig operations in the subsequent 24 months - varying from 39% of producers in Europe to 61% in the Eastern Hemisphere outside Europe (Asia/Pacific and Africa). (pages 6-8)

2. Among producers who have breeding sows, 34% - up from 30% earlier reported for 1983 - use artificial insemination, ranging from 23% in Asia/Pacific and Africa to 48% in Europe; and 47% have already adopted the use of a sow pregnancy detection machine - ranging from 40% outside Europe to 59% in Europe. (page 10)

3. While the percent of all the farrowers who use solid floors in farrowing areas fell from 43% in 1983 to 34% in 1986, the percent who use slatted floors grew from 62% to 70%; and of this group, the majority uses metal, woven wire, or plastic-coated slats. (page 13)

4. 63% of the European farrowers supply feed to their sows manually - down from the earlier-reported 71% in 1983, and 74% in 1981; 29% supply feed semi-automatically - up from 23% and 19% respectively; and 22% feed sows fully-automatically - up from 18%, and 15%. (page 17)

5. While the percent of producers who bought complete feed fell from 1983 to 1986, the percent who prepare feed on the farm jumped from 55% to 62%, ranging from 52% in Europe to 69% in Asia/Pacific/Africa. (page 18)

6. Medication is normally included (1) in the sows rations of 43% of the farrowers (up from 41% in '83) - ranging from 14% in Europe to 61% elsewhere, and (2) in the young pig rations of 71% of related producers (up from 68%) - ranging from 46% in Europe to 87% outside Europe. (page 18)

7. 89% of all the producers ranked pig health problems that were important to their business in the preceding twelve months. The three diseases ranked most often by these producers were (1) Enteritis/Diarrhea - cited by 62% - up from 58% earlier reported for 1982, (2) Respiratory Infections - 53% - up from 49%, and (3) Foot and Leg Troubles - 43% - up from 35%. The percent of producers who used antibiotics on their pigs in the preceding twelve months was 91% - up from 88%, and the percent who used vaccines was 78% - up from 73%. (pages 21,24)

8. Of producers' five major pig business inputs, Health Products were mentioned by the largest percent - 67% - as having been imported - up from 63%. (page 31)

9. In answer to the question "Do you plan to buy any pig production equipment in the next two years?" 69% of all producers said "Yes." Of this group, at least 25% planned to buy equipment for feeding, watering, heating, and/or pregnancy detection. And of all the producers, 25% now use a computerized herd recording system - up from 19% in 1983 - ranging from 16% outside Europe to 38% in Europe. (pages 32-33)

PIG INTERNATIONAL MARKET SURVEY

DETAILED FINDINGS

1. READERS'* PIG BUSINESS ACTIVITIES

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	783	319	464
Percent of readers reporting:			
Farrow and fatten for slaughter.....	72%	62%	78%
Farrow and sell piglets (weaners).....	26%	29%	25%
(Either or both of above).....	(84%)	(79%)	(87%)
Buy weaned pigs for fattening.....	11%	14%	8%
(Any fattening).....	(78%)	(72%)	(82%)
Produce breeding pigs for sale.....	27%	25%	29%
(Any farrowing).....	(92%)	(86%)	(95%)
(Any of above).....	(97%)	(95%)	(98%)
Slaughter pigs and/or process pig meat..	8%	9%	8%
Market pig meat - wholesale and/or retail.....	9%	4%	12%
Other.....	5%	7%	4%
TOTAL.....	159%	150%	164%

*"Readers" refers to the 64.6% of the October 1985 Pig International BPA qualified circulation list classified as "Pig/Hog Producers" and "Pig/Hog Breeders" in Europe, Africa, and Asia including islands of the Pacific Ocean. The approximate number in this circulation was 9,678, broken out as follows: Europe - 3,816, and Asia/Pacific and Africa - 5,862.

2. PRODUCERS'* PIG PRODUCTION VOLUME

Number Of SOWS In Herd

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	695	270	425
Among producers who have sows, percent reporting:			
500 or more sows.....	22%	19%	25%
200 - 499 sows.....	30%	32%	28%
100 - 199 sows.....	28%	36%	23%
Under 100 sows.....	20%	13%	24%
Average* number of sows per producer having any.....	499 sows	444 sows	534 sows
Median number of sows per producer having any.....	200 sows	200 sows	200 sows

*Arithmetic average

Number Of BOARS In Herd

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	673	258	415
Among producers who have boars, percent reporting:			
25 or more boars.....	30%	20%	36%
10 - 24 boars.....	30%	30%	30%
5 - 9 boars.....	23%	28%	21%
1 - 4 boars.....	17%	22%	13%
Average number of boars per producer having any.....	35 boars	25 boars	42 boars
Median number of boars per producer having any.....	12 boars	10 boars	15 boars

*"Producers" refers to readers who reported at survey time that they feed, fatten, breed, or farrow pigs commercially. Producers in the study issue numbered approximately as follows: Combined Areas - 9,370; Europe - 3,625; and Asia/Pacific and Africa - 5,745.

2. (cont.)

Number Of WEANED PIGS SOLD In Preceding Twelve Months

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	319	126	193
Among producers who sold weaned pigs in the preceding twelve months, percent reporting:			
3,000 or more weaned pigs.....	32%	50%	21%
1,000 - 2,999 weaned pigs.....	24%	27%	22%
200 - 999 weaned pigs.....	24%	16%	29%
Under 200 weaned pigs.....	20%	7%	28%
Average number of weaned pigs sold, per producer selling any.....	4,393 weaned pigs	6,135	3,256
Median number of weaned pigs sold, per producer selling any.....	1,225 weaned pigs	2,974	554

Number Of FINISHED PIGS SOLD In Preceding Twelve Months

Respondents..	620	236	384
Among producers who sold finished pigs in the preceding twelve months, percent reporting:			
5,000 or more finished pigs...	31%	38%	27%
2,000 - 4,999 finished pigs...	27%	29%	25%
1,000 - 1,999 finished pigs...	18%	19%	17%
Under 1,000 finished pigs.....	24%	14%	31%
Average number of finished pigs sold, per producer selling any.....	7,900 finished pigs	8,800	7,300
Median number of finished pigs sold, per producer selling any.....	2,500 finished pigs	3,114	2,040

3. "About how many total pigs of ALL types do you have NOW - including sows, boars, and suckling or fattening pigs?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	726	291	435
Percent of producers reporting:			
10,000 or more pigs.....	9%	7%	11%
2,000 - 9,999 pigs.....	33%	36%	31%
500 - 1,999 pigs.....	43%	51%	37%
Under 500 pigs.....	15%	6%	21%
Average number of pigs of all types on the farm at survey time, per producer.....	4,500 pigs	4,700	4,350
Median number of pigs of all types on the farm at survey time, per producer.....	1,500 pigs	1,565	1,500

4. "Do you expect to expand your pig operations in the next 24 months?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	764	306	458
Percent of producers answering "Yes".....	52%	39%	61%

5. "Have you expanded your pig operations in the LAST 24 months?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	769	310	459
Percent of producers answering "Yes".....	51%	41%	58%

6. "If you have any breeding sows, what is the source of your GILT replacements?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	695	270	425
Among producers who have breeding sows, percent reporting:			
Hybrid company.....	30%	35%	27%
Purebred breeder.....	27%	20%	31%
(Either or both of above)....	(51%)	(53%)	(50%)
Own herd.....	73%	66%	77%
Other.....	6%	4%	7%

(a) "From which source(s) do you obtain BOARS?"

Respondents..	704	270	434
Among producers who have boars, percent reporting:			
Hybrid company.....	32%	39%	29%
Purebred breeder.....	54%	51%	56%
(Either or both of above)....	(78%)	(84%)	(74%)
Own herd.....	33%	20%	41%
Other.....	11%	6%	14%

7. "Do you use artificial insemination to breed sows?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	713	275	438
Among producers who have breeding sows, percent answering "Yes".....	34%	48%	25%
(a) "If 'Yes' what is the source of the semen?"			
Respondents..	239	129	110
Among producers who use artificial insemination to breed sows, percent reporting:			
Purchased.....	65%	79%	49%
From our own boars....	43%	26%	63%
Other.....	4%	3%	5%

8. "Do you use a sow pregnancy detection machine?"

Respondents..	705	268	437
Among producers who have breeding sows, percent answering:			
Yes...	47%	59%	40%
No....	53%	41%	60%

9. "What are your two most important considerations when you buy breeding pigs?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	689	263	426
Among producers who have breeding sows, percent reporting:			
Test results	53%	53%	53%
Conformation	31%	29%	32%
Health status	56%	62%	52%
Price	13%	7%	16%
Guarantee that all pigs will come from a single source	15%	22%	11%
Reputation of supplier	27%	22%	30%
Follow-up service	6%	3%	8%
Other	2%	3%	2%

10. TYPES OF HOUSING USED FOR PRODUCERS' PREGNANT SOWS

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	715	275	440
Among producers who have breeding sows, percent reporting:			
Individual tie-up stalls	30%	44%	21%
Individual stalls without ties	50%	40%	56%
(Any individual stalls)	(76%)	(78%)	(75%)
Indoor group pens or yards	31%	34%	30%
Outdoor group pens or yards	9%	10%	8%
(Any group pens)	(37%)	(40%)	(36%)
Other	2%	3%	2%

11. "What type(s) of housing do you use for farrowing sows?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	708	274	434
Among producers who have breeding sows, percent reporting:			
Tie-up crates/stalls.....	21%	31%	14%
Crates/stalls without ties.....	61%	65%	59%
(Either or both of above).....(79%)		(90%)	(71%)
Pens with single rail or barrier...	20%	12%	25%
(Any of above).....(95%)		(98%)	(94%)
Outdoor huts.....	3%	2%	4%
Other.....	2%	1%	3%

12. "At about what age do you wean litters?"

Respondents..	708	271	437
Among producers who have breeding sows, percent reporting:			
Under 2 weeks.....	*	-	*
2 weeks.....	2%	3%	2%
3 weeks.....	24%	40%	13%
4 weeks.....	42%	38%	44%
5 weeks.....	20%	20%	20%
6 weeks.....	11%	4%	15%
7 weeks or older.....	6%	1%	10%

*Less than 0.5%.

13. "What type(s) of floor(s) do you use in farrowing areas?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	713	276	437
Among producers who have breeding sows, percent reporting:			
Solid.....	34%	27%	38%
Part slatted.....	47%	66%	36%
Fully slatted.....	26%	20%	29%
(Any slatted).....(70%)		(80%)	(63%)
Other.....	3%	2%	3%

(a) "If slatted, what type(s) of slats?"

Respondents..	494	219	275
Among producers who have breeding sows, percent reporting:			
Aluminum.....	6%	7%	5%
Concrete.....	27%	18%	35%
Expanded metal.....	13%	20%	8%
Iron/steel T-bars.....	23%	26%	22%
Perforated metal strips.....	13%	26%	3%
Plastic-coated grids.....	10%	9%	11%
Wood.....	7%	1%	11%
Woven wire or wire mesh.....	19%	14%	22%
Other.....	8%	11%	5%

14. "What type(s) of heating do you use in farrowing and/or rearing areas?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	672	271	401
Among producers who have breeding sows, percent reporting:			
Gas heaters.....	11%	14%	10%
Electrical/infra-red lamps...	75%	77%	73%
In-floor heating.....	11%	15%	7%
Hot-water radiators.....	8%	16%	2%
Whole-house heating.....	6%	8%	4%
Other.....	9%	2%	14%

15. "What type(s) of waterer(s) do you use in farrowing and/or rearing areas?"

Respondents..	714	274	440
Among producers who have breeding sows, percent reporting:			
Bowls.....	28%	22%	33%
Nipples/nozzles.....	61%	73%	54%
Snout-operated nipples...	23%	26%	20%
(Any nipples).....	(78%)	(92%)	(70%)
Other.....	5%	3%	7%

16. "If you fatten for slaughter, what rearing housing do you use for weaned pigs?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	703	253	450
Among producers who fatten for slaughter, percent reporting:			
Solid-floored pens or yards....	45%	32%	52%
Slatted-floor pens or yards....	36%	39%	35%
Flat decks or cages.....	24%	3[illegible]	18%
Other.....	6%	8%	4%

17. "If you fatten for slaughter, what type(s) of waterer(s) do you use for growing-finishing pigs?"

Respondents..	697	256	441
Among producers who fatten for slaughter, percent reporting:			
Bowls.....	24%	21%	25%
Nipples/nozzles.....	58%	64%	54%
Snout-operated nipples...	21%	21%	22%
(Any nipples).....	(76%)	(82%)	(72%)
Other.....	7%	7%	7%

18. "Do you use a liquid feeding system for any of your pigs?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	758	302	456
Percent of producers answering "Yes".....	27%	35%	21%
(a) "If 'yes,' which animals do you liquid feed?"			
Respondents..	201	107	94
Among producers who liquid feed any of their pigs, percent reporting:			
Breeding sows only.....	15%	8%	21%
Growing-fattening pigs only....	43%	58%	27%
Both breeding sows and growing-fattening pigs.....	38%	29%	49%
Other.....	4%	5%	3%

19. "If you fatten for slaughter, how much feed is given to your finishing pigs?"

Respondents..	689	248	441
Among producers who fatten for slaughter, percent reporting:			
Quantity restricted or metered.....	56%	68%	49%
Quantity unrestricted (considerably more available than likely to be consumed at one feeding).....	44%	33%	49%
Other.....	3%	3%	3%

20. "If you have any sows, young pigs, and/or finishing pigs, how is the feed supplied to them?"

Supplying Feed To SOWS

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	722	276	446
Among producers who have sows, percent reporting:			
Manually (by hand).....	78%	63%	87%
Semi-automatically (mechanically but requiring some manual filling).....	18%	29%	12%
Fully automatically (requiring no manual filling).....	11%	22%	4%

Supplying Feed To YOUNG PIGS

Respondents..	723	282	441
Among producers who have young pigs, percent reporting:			
Manually (by hand).....	69%	63%	73%
Semi-automatically (mechanically but requiring some manual filling).....	23%	23%	23%
Fully automatically (requiring no manual filling).....	13%	22%	8%

Supplying Feed To FINISHING PIGS

Respondents..	693	258	435
Among producers who have finishing pigs, percent reporting:			
Manually (by hand).....	57%	35%	70%
Semi-automatically (mechanically but requiring some manual filling).....	23%	27%	20%
Fully automatically (requiring no manual filling).....	26%	47%	13%

21. "What is the source of the feed?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	773	310	463
Percent of producers reporting:			
Prepared on the farm.....	62%	52%	69%
Purchased as complete rations..	42%	52%	35%
Other.....	4%	4%	4%

(a) "If you prepare feed on the farm, what sort of mixture do you produce?"

Respondents..	471	155	316
Among producers who prepare feed on the farm, percent reporting:			
Cereal(s) plus a protein-vitamin-mineral supplement.....	22%	28%	19%
Cereal(s) plus vitamin protein ingredient(s) (such as soybean meal) plus a vitamin-mineral premix.....	58%	55%	60%
All raw materials.....	21%	17%	23%
Other.....	6%	6%	6%

22. "If you have sows and/or young pigs, do their feed rations normally contain medication?"

Respondents..	689	258	431
Among producers with sows, percent answering "Yes" for sows.....	43%	14%	61%
Respondents..	716	286	430
Among producers with young pigs, percent answering "Yes" for young pigs.....	71%	46%	87%

23. "If you fatten for slaughter, does the finishing feed usually contain a growth promoter?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	691	256	435
Among producers who fatten for slaughter, percent answering "Yes".....	58%	48%	63%

24. "Do you make use of water medication?"

Respondents..	749	296	453
Percent of producers answering "Yes".....	40%	37%	43%

25. "If you farrow, at about what age do you start creep feeding?"

Respondents..	712	272	440
Among producers who farrow, percent reporting:			
1st week.....	23%	25%	21%
2nd week.....	47%	46%	48%
3rd week.....	16%	14%	17%
At weaning.....	12%	11%	12%
Other.....	3%	3%	3%

26. "If you farrow, do you normally give iron to your baby pigs to PREVENT anemia?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	724	274	450
Among producers who farrow, percent answering "Yes".....	96%	97%	96%

"If 'Yes,' . . .

(a) How is the iron given?"

Respondents..	693	263	430
Among producers who normally give iron to prevent anemia, percent reporting:			
By injection...	95%	98%	93%
By mouth.....	7%	3%	9%
Other.....	1%	*	1%

*Less than 0.5%.

(b) "Have you changed your type or brand of iron supplement in the last twelve months?"

Respondents..	651	240	411
Among producers who normally give iron to prevent anemia, percent answering "Yes".....	33%	19%	41%

27. "Do you give a wormer to your pigs periodically for worm PREVENTION or do you only TREAT them when they are kown to be worm-infested?"

Respondents..	757	300	457
Percent of producers reporting:			
Worm periodically for prevention.....	80%	81%	80%
Treat known infestations only.....	13%	13%	12%
Do no worming.....	7%	6%	8%

28. RANKING OF PIG HEALTH PROBLEMS IMPORTANT TO PRODUCER'S BUSINESS IN PRECEDING TWELVE MONTHS: COMBINED AREAS

Percent of (617 reporting) producers citing serious pig health problems..... 89%

	Among (552 reporting) Producers Who Reported Pig Health Problems, Percent Assigning A Rank** Of . . .												
	1	2	3	4	5	6	7	8	9	10	11	12	Any Rank
Aujeszky's/pseudorabies..	4%	4%	1%	1%	*	1%	*	*	*	1%	*	*	15%
Cannibalism/vices.....	1%	5%	4%	3%	2%	4%	1%	1%	1%	*	*	-	23%
Enteritis/diarrhea.....	31%	17%	8%	3%	1%	*	1%	*	-	-	-	-	62%
Foot and leg troubles....	8%	12%	9%	6%	3%	2%	1%	*	1%	*	-	-	43%
Mastitis syndrome (MMA)..	6%	10%	5%	5%	4%	2%	2%	1%	1%	*	-	-	36%
Parasites.....	4%	5%	5%	3%	3%	2%	2%	2%	1%	1%	*	-	28%
Reproductive troubles...	10%	11%	7%	4%	3%	2%	1%	*	*	-	-	-	39%
Respiratory infections..	20%	16%	8%	4%	1%	2%	*	1%	-	*	-	-	53%
Stress/PSE.....	2%	4%	4%	3%	3%	1%	3%	1%	1%	1%	1%	-	24%
Swine dysentery.....	7%	7%	4%	4%	1%	*	1%	1%	1%	*	*	-	27%
Swine fever/hog cholera.	3%	4%	2%	1%	1%	1%	*	*	1%	1%	1%	*	16%
Other.....	4%	2%	1%	1%	-	*	-	1%	-	-	*	*	10%
													376%

Average number of pig health problems ranked, per producer ranking any..... 3.76

*Less than 0.5%.

**A rank of "1" indicates the most serious problem; "12" is the least serious.

28. RANKING OF PIG HEALTH PROBLEMS IMPORTANT TO PRODUCER'S BUSINESS IN PRECEDING TWELVE MONTHS: EUROPE

Percent of (241 reporting) producers citing serious pig health problems..... 86%

	Among (207 reporting) Producers Who Reported Pig Health Problems, Percent Assigning A Rank Of . . .												
	1	2	3	4	5	6	7	8	9	10	11	12	Any Rank
Aujeszky's/pseudorabies..	3%	3%	2%	1%	-	1%	*	-	*	*	-	*	12%
Cannibalism/vices.....	2%	6%	5%	5%	2%	2%	1%	*	1%	-	-	-	24%
Enteritis/diarrhea.....	30%	19%	7%	2%	3%	*	1%	*	-	-	-	-	63%
Foot and leg troubles....	8%	16%	12%	5%	4%	2%	*	*	-	-	-	-	48%
Mastitis syndrome (MMA)..	7%	11%	6%	5%	2%	1%	1%	-	1%	*	-	-	34%
Parasites.....	2%	4%	5%	2%	3%	2%	1%	1%	-	1%	*	-	21%
Reproductive troubles....	14%	12%	6%	4%	1%	1%	1%	-	-	-	-	-	39%
Respiratory infections...	21%	16%	9%	4%	2%	2%	*	*	-	-	-	-	55%
Stress/PSE.....	2%	3%	5%	4%	2%	2%	1%	1%	1%	*	*	-	22%
Swine dysentery.....	5%	5%	3%	3%	2%	-	*	1%	-	-	*	-	20%
Swine fever/hog cholera..	*	1%	*	1%	-	-	-	*	*	*	1%	-	5%
Other.....	6%	3%	*	1%	-	*	-	-	-	-	-	-	11%
													354%

Average number of pig health problems ranked, per producer ranking any..... 3.54

*Less than 0.5%.

28. RANKING OF PIG HEALTH PROBLEMS IMPORTANT TO PRODUCER'S BUSINESS IN PRECEDING TWELVE MONTHS: ASIA/PACIFIC AND AFRICA

Percent of (376 reporting) producers citing serious pig health problems..... 92%

	Among (345 reporting) Producers Who Reported Pig Health Problems, Percent Assigning A Rank Of . . .												
	1	2	3	4	5	6	7	8	9	10	11	12	Any Rank
Aujeszky's/pseudorabies..	4%	4%	*	1%	1%	1%	*	*	*	1%	*	*	15%
Cannibalism/vices.....	1%	5%	3%	2%	2%	5%	*	2%	1%	*	1%	-	23%
Fnteritis/diarrhea.....	31%	17%	8%	3%	*	-	*	-	-	-	-	-	60%
Foot and leg troubles....	9%	9%	8%	6%	3%	3%	2%	*	1%	1%	-	-	42%
Mastitis syndrome (MMA)..	6%	10%	4%	5%	5%	2%	2%	1%	*	*	-	-	36%
Parasites.....	6%	6%	5%	3%	2%	1%	2%	2%	1%	1%	-	-	29%
Reproductive troubles....	7%	10%	7%	4%	3%	3%	1%	1%	1%	-	-	-	37%
Respiratory infections...	19%	18%	7%	3%	1%	1%	-	1%	-	*	-	-	50%
Stress/PSE.....	2%	5%	3%	2%	3%	1%	4%	2%	1%	1%	1%	-	25%
Swine dysentery.....	7%	8%	5%	4%	1%	1%	1%	1%	1%	1%	*	-	30%
Swine fever/hog cholera..	5%	5%	3%	1%	2%	1%	*	*	1%	2%	1%	1%	22%
Other.....	3%	1%	1%	1%	-	-	-	1%	-	-	*	*	8%
													377%

Average number of pig health problems ranked, per producer ranking any..... 3.77

*Less than 0.5%.

29. "Which of the following have you used on your pigs in the last twelve months?

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	767	306	461
Percent of producers reporting:			
Antibiotic(s)...	91%	86%	93%
Vaccine(s).....	78%	77%	79%
Neither one.....	2%	4%	1%

(a) "If you used any antibiotics and/or vaccines on your pigs in the last twelve months, from what SOURCE(S) did you obtain these products?"

Sources of ANTIBIOTICS

Respondents..	687	259	428
Percent of antibiotic users reporting:			
Medication manufacturer or distributor.....	47%	22%	62%
Feed supplier.....	13%	14%	13%
Veterinarian.....	56%	81%	41%
Other.....	2%	*	2%

*Less than 0.5%.

Sources of VACCINES

Respondents..	559	220	339
Percent of vaccine users reporting:			
Medication manufacturer or distributor.....	51%	34%	62%
Feed supplier.....	6%	4%	7%
Veterinarian.....	52%	68%	42%
Other.....	3%	3%	3%

30. "In which of the following ways do you treat your pig manure?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	737	287	450
Percent of producers reporting:			
Solids separation.....	30%	25%	33%
Aeration/oxidation.....	17%	11%	21%
Anaerobic digestion (producing biogas)...	9%	3%	13%
Other.....	11%	11%	11%
None.....	39%	54%	29%

(a) "If 'none' do you intend to install a treatment system?"

Respondents..	285	154	131
Among producers who do not treat their pig manure, percent answering "Yes".....	28%	12%	47%

(1) "If 'yes,' of which type?"

Respondents..	172	34	138
Among producers who intend to install a treatment system, percent reporting:			
Solids separation.....	27%	29%	27%
Aeration/oxidation....	15%	29%	11%
Anaerobic digestion (producing biogas)..	31%	26%	32%
Drying.....	25%	6%	30%
Other.....	9%	9%	9%

31. "Which of the following pig housing environmental items do you use?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	757	300	457
Percent of producers reporting:			
Water sprinklers for cooling.....	22%	4%	34%
Power ventilation/fans.....	49%	76%	31%
Heat saving and recycling system....	5%	10%	2%
Air deodorizing method.....	2%	2%	2%
Dust control systems.....	2%	*	3%
None of the above.....	32%	19%	41%

*Less than 0.5%.

32. "In planning your pig housing and management, which of the following considerations are most important to you?"

Combined Areas

Percent of (698 answering) producers reporting:	RANK* 1	2	3	4	Any Rank
Saving Feed.....	61%	23%	11%	4%	99%
Saving Heat and/or Other Energy.....	13%	24%	29%	29%	95%
Saving Labor.....	19%	35%	29%	14%	97%
Saving Space.....	8%	15%	25%	46%	94%

Europe

Percent of (285 answering) producers reporting:	RANK 1	2	3	4	Any Rank
Saving Feed.....	63%	22%	9%	3%	97%
Saving Heat and/or Other Energy.....	17%	36%	35%	10%	98%
Saving Labor.....	17%	33%	30%	18%	98%
Saving Space.....	3%	8%	21%	62%	94%

Asia/Pacific and Africa

Percent of (413 answering) producers reporting:	RANK 1	2	3	4	Any Rank
Saving Feed.....	59%	24%	12%	4%	99%
Saving Heat and/or Other Energy.....	10%	16%	24%	42%	92%
Saving Labor.....	20%	37%	29%	11%	97%
Saving Space.....	11%	21%	28%	35%	95%

*Where a rank of "1" indicates "Most important."

33. "How do you obtain the following housing and equipment for your pigs?"

Pig House(s)	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	727	287	440
Percent of producers reporting:			
Buy from dealer.....	9%	13%	6%
Buy from manufacturer.....	25%	44%	12%
Make my own.....	71%	52%	84%
Do not have or use any....	1%	1%	1%

Flooring			
Respondents..	722	286	436
Percent of producers reporting:			
Buy from dealer.....	20%	32%	11%
Buy from manufacturer.....	37%	54%	26%
Make my own.....	49%	22%	67%
Do not have or use any....	1%	1%	2%

Feeding Equipment			
Respondents..	725	289	436
Percent of producers reporting:			
Buy from dealer.....	27%	37%	19%
Buy from manufacturer.....	48%	55%	44%
Make my own.....	28%	11%	39%
Do not have or use any....	3%	2%	3%

33. (cont.)

Waterers	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	718	285	433
Percent of producers reporting:			
Buy from dealer.....	47%	53%	43%
Buy from manufacturer.....	41%	41%	40%
Make my own.....	16%	8%	21%
Do not have or use any....	1%	1%	1%

Pens			
Respondents..	675	255	420
Percent of producers reporting:			
Buy from dealer.....	11%	17%	7%
Buy from manufacturer.....	31%	45%	22%
Make my own.....	60%	40%	72%
Do not have or use any....	4%	4%	4%

Cages			
Respondents..	626	232	394
Percent of producers reporting:			
Buy from dealer.....	12%	17%	9%
Buy from manufacturer.....	33%	46%	25%
Make my own.....	38%	13%	52%
Do not have or use any....	19%	26%	15%

33. (cont.)

Manure Equipment	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	623	245	378
Percent of producers reporting:			
Buy from dealer.....	25%	39%	16%
Buy from manufacturer.....	33%	42%	26%
Make my own.....	21%	8%	29%
Do not have or use any....	24%	13%	31%

Ventilation Equipment			
Respondents..	653	279	374
Percent of producers reporting:			
Buy from dealer.....	33%	44%	25%
Buy from manufacturer.....	37%	45%	31%
Make my own.....	11%	5%	16%
Do not have or use any....	22%	9%	31%

Heating Equipment			
Respondents..	665	279	386
Percent of producers reporting:			
Buy from dealer.....	45%	57%	37%
Buy from manufacturer.....	32%	37%	29%
Make my own.....	12%	4%	18%
Do not have or use any....	14%	5%	20%

34. "Which of the following of your pig business items - or any portion of them - were produced OUTSIDE of your own country?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	594	204	390
Percent of producers reporting:			
Pig housing.....	7%	10%	6%
Equipment.....	46%	49%	44%
Breeding pigs.....	33%	15%	42%
Health products.....	67%	58%	71%
Feed - complete diets or concentrates...	27%	25%	28%

Pig International Market Survey (cont.)

35. "Do you plan to buy any pig production equipment in the next two years?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	755	298	457
Percent of producers who answered "Yes".....	69%	67%	71%

(a) "If 'yes,' what type(s)?"

Respondents..	522	199	323
Among producers who plan to buy pig production equipment in the subsequent two years, percent reporting:			
Feeding equipment.....	53%	64%	47%
Watering equipment.....	34%	30%	37%
Heating equipment.....	28%	34%	24%
Manure handling equipment.....	21%	27%	17%
Ventilating equipment.....	22%	37%	13%
Pregnancy detection equipment...	25%	18%	30%
Other.....	5%	6%	5%

(b) "Equipment That NEEDS The Most IMPROVEMENT In Design, Construction, Or Performance

Respondents..	348	138	210
Percent of producers reporting:			
Feeding equipment.....	23%	30%	18%
Watering equipment.....	6%	7%	5%
Heating equipment.....	8%	14%	3%
Manure handling equipment.....	23%	20%	25%
Ventilating equipment.....	28%	31%	27%
Pregnancy detection equipment...	32%	8%	47%
Other.....	5%	3%	7%

36. "Do you now use, or plan to use in the next two years, a computerized herd recording system?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	740	300	440
Percent of producers reporting:			
Now use.....	25%	38%	16%
Plan to use within two years..	34%	26%	39%
Neither use, nor plan to.....	38%	34%	41%
Other.....	4%	2%	5%

37. "Where do you look for reliable information before you decide whether you will buy any particular pig health product, breeding stock, or pig production equipment or housing?"

	Combined Areas			Europe			Asia/Pacific and Africa		
	Percent of readers reporting for . . .								
	Pig Health Products	Pig Breeding Stock	Pig Equipment, Housing	Pig Health Products	Pig Breeding Stock	Pig Equipment, Housing	Pig Health Products	Pig Breeding Stock	Pig Equipment, Housing
Respondents..	730	648	669	286	249	279	444	399	390
Trade exhibitions.....	29%	27%	55%	33%	30%	66%	27%	24%	47%
Other pigman.....	25%	40%	36%	24%	34%	41%	25%	43%	32%
College or research station.....	37%	37%	27%	41%	39%	33%	35%	35%	23%
Veterinarian.....	67%	13%	8%	71%	10%	7%	64%	15%	8%
Feedmill.....	9%	5%	10%	8%	6%	5%	9%	5%	13%
Magazine articles.....	37%	28%	45%	35%	29%	50%	39%	28%	41%
Magazine advertisements.....	28%	21%	37%	21%	12%	33%	33%	25%	40%
Manufacturer's or breeding firm's salesman.....	14%	23%	17%	10%	21%	18%	17%	24%	16%
Health product supplier other than manufacturer.....	28%	5%	4%	16%	4%	3%	35%	6%	5%
Personal trial results	25%	26%	21%	22%	26%	19%	27%	25%	22%
Other.....	1%	2%	1%	*	2%	1%	1%	3%	1%
None.....	1%	2%	1%	-	3%	*	1%	2%	2%

*Less than 0.5%.

38. "In what area(s) of swine production would you like more INFORMATIVE ADVERTISING?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	731	286	445
Percent of producers reporting:			
Pig breeding/genetics	59%	40%	71%
Boar feeding	21%	15%	25%
Sow feeding	31%	26%	34%
Farrowing	38%	34%	41%
Feeding systems for finishing hogs	34%	32%	35%
Feeding systems for nursery pigs	43%	38%	46%
Limited feeding	18%	15%	20%
Waterers	11%	10%	11%
Slatted floors	18%	21%	16%
Ventilation systems	30%	38%	24%
Cages	12%	10%	13%
Other	6%	8%	4%
None	4%	6%	2%

39. "Did you visit any pig production-related exhibitions (fairs) OUTSIDE your country in the last three years? (do not include fairs held in your own country)"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	759	297	462
Percent of producers who answered "Yes".....	24%	37%	16%
(a) "If 'yes,' which pig fairs?"			
Respondents..	182	109	73
Among producers who visited any pig production-related exhibitions (fairs) outside their country in the preceding three years, percent reporting:			
Huhn und Schwein, Hannover.....	27%	34%	18%
Rassegna Suinicola, Reggio Emilia..	13%	17%	5%
SIMAVIP, Paris.....	13%	18%	4%
Salon International d'Agriculture, Paris.....	18%	23%	10%
VIV, Utrecht.....	21%	21%	21%
Other, written-in:			
National Pig Fair, U.K.....	8%	11%	3%
International Pig Trade Show.....	4%	1%	10%
Agromek.....	4%	5%	3%
Royal International Agricultural Show.....	3%	4%	3%
Ontario Pig Show.....	2%	-	4%
Taiwan Farms Exhibitions.....	2%	-	4%
Miscellaneous (mentioned once each).....	5%	4%	7%
Other, not specified.....	16%	8%	26%

40. "What is your approximate age?"

	Combined Areas	Europe	Asia/Pacific and Africa
Respondents..	771	308	463
Percent of producers reporting:			
Under 20.....	1%	1%	1%
20 - 29.....	21%	16%	24%
30 - 39.....	37%	32%	40%
40 - 49.....	21%	23%	20%
50 - 59.....	15%	21%	11%
60 or over....	5%	6%	3%

EDITOR'S GUIDE

CONFIDENTIAL INFORMATION To help improve PIG INTERNATIONAL

The confidential information you give here is vitally important to me in making future issues of PIG INTERNATIGNAL still more useful to you.

Peter Best, Editor

START HERE

1. Please mark (√) each of the following pig business activities you are engaged in.
   - ☐ Farrow and fatten for slaughter
   - ☐ Farrow and sell piglets (weaners)
   - ☐ Buy weaned pigs for fattening
   - ☐ Produce **breeding** pigs for sale
   - ☐ Slaughter pigs and/or process pig meat
   - ☐ Market pig meat—wholesale and/or retail
   - ☐ Other _____

   If you do **not** feed, fatten, breed, nor farrow pigs commercially—whether for meat or for breeding purposes—please mark here ( ) and return this questionnaire.

2. If you are a pig producer, please indicate below the size of your operation.

   Number of **sows,** if any, in herd ..... _____ number

   Number of **boars,** if any, in herd ..... _____ number

   Number of **weaned pigs sold** in last twelve months, if any ..... _____ number

   Number of **finished pigs sold** in last twelve months, if any ..... _____ number

3. About how many total pigs of **all** types do you have **now** - including sows, boars, and suckling or fattening pigs?

   _____ number

4. Do you expect to expand your pig operations in the next 24 months? ☐ Yes ☐ No

5. Have you expanded your pig operations in the *last* 24 months? ☐ Yes ☐ No

   If you do **not** have any breeding sows, please skip to question 16.

6. If you have any breeding sows, what is the source of your **gilt** replacements? (please mark all that apply)
   - ☐ Hybrid company
   - ☐ Purebred breeder
   - ☐ Own herd
   - ☐ Other (please specify) _____

   (a) From which source(s) do you obtain **boars?** (please mark all that apply)
   - ☐ Hybrid company
   - ☐ Purebred breeder
   - ☐ Own herd
   - ☐ Other (please specify) _____

7. Do you use artificial insemination to breed sows? ☐ Yes ☐ No

   If "yes," . . .
   (a) What is the source of the semen? (please mark)
   - ☐ Purchased
   - ☐ From our own boars
   - ☐ Other

8. Do you use a sow pregnancy detection machine? ☐ Yes ☐ No

9. What are your two most important considerations when you buy breeding pigs? (please mark)
   - ☐ Test results
   - ☐ Conformation
   - ☐ Health status
   - ☐ Price
   - ☐ Guarantee that all pigs will come from a single source
   - ☐ Reputation of supplier
   - ☐ Follow-up service
   - ☐ Other

10. Please mark the type(s) of housing you use for your pregnant sows.
    - ☐ Individual tie-up stalls
    - ☐ Individual stalls without ties
    - ☐ Indoor group pens or yards
    - ☐ Outdoor group pens or yards
    - ☐ Other

    _____

11. What type(s) of housing do you use for farrowing sows? (please mark)
    - ☐ Tie-up crates/stalls
    - ☐ Crates/stalls without ties
    - ☐ Pens with single rail or barrier
    - ☐ Outdoor huts
    - ☐ Other

    _____

turn to page 2

12. At about what age do you wean litters? (please mark)

- ☐ Under 2 weeks
- ☐ 2 weeks
- ☐ 3 weeks
- ☐ 4 weeks
- ☐ 5 weeks
- ☐ 6 weeks
- ☐ 7 weeks or older

13. What type(s) of floor(s) do you use in farrowing areas? (please mark)

- ☐ Solid
- ☐ Part slatted
- ☐ Fully slatted
- ☐ Other

(a) If slatted, what type(s) of slats? (please mark)

- ☐ Aluminum
- ☐ Concrete
- ☐ Expanded metal
- ☐ Iron/steel T-bars
- ☐ Perforated metal strips
- ☐ Plastic-coated grids
- ☐ Wood
- ☐ Woven wire or wire mesh
- ☐ Other

14. What type(s) of heating do you use in farrowing and/or rearing areas? (please mark)

- ☐ Gas heaters
- ☐ Electrical/infra-red lamps
- ☐ In-floor heating
- ☐ Hot-water radiators
- ☐ Whole-house heating
- ☐ Other

15. What type(s) of waterer(s) do you use in farrowing and/or rearing areas? (please mark)

- ☐ Bowls
- ☐ Nipples/nozzles
- ☐ Snout-operated nipples
- ☐ Other

16. If you fatten for slaughter, what rearing housing do you use for weaned pigs? (please mark)

- ☐ Solid-floored pens or yards
- ☐ Slatted-floor pens or yards
- ☐ Flat decks or cages
- ☐ Other

17. If you fatten for slaughter, what type(s) of waterer(s) do you use for growing-finishing pigs? (please mark)

- ☐ Bowls
- ☐ Nipples/nozzles
- ☐ Snout-operated nipples
- ☐ Other

MARK your answer in

18. Do you use a liquid feeding system for any of your pigs?

☐ Yes ☐ No

(a) If "yes," which animals do you liquid feed? (please mark)

- ☐ Breeding sows only
- ☐ Growing-fattening pigs only
- ☐ Both breeding sows and growing-fattening pigs
- ☐ Other (please specify)

19. If you fatten for slaughter, how much feed is given to your finishing pigs? (please mark)

- ☐ Quantity restricted or metered
- ☐ Quantity unrestricted (considerably more available than likely to be consumed at one feeding)
- ☐ Other

20. If you have any sows, young pigs, and/or finishing pigs how is the feed supplied to them? (please mark all that apply)

	Sows	Young Pigs	Finishing Pigs
Manually (by hand)	☐	☐	☐
Semi-automatically (mechanically but requiring some manual filling)	☐	☐	☐
Fully automatically (requiring no manual filling)	☐	☐	☐

21. What is the source of the feed? (please mark)

- ☐ Prepared on the farm
- ☐ Purchased as complete rations
- ☐ Other

(a) If you prepare feed on the farm, what sort of mixture do you produce? (please mark)

- ☐ Cereal(s) plus a protein-vitamin-mineral supplement
- ☐ Cereal(s) plus vitamin protein ingredient(s) (such as soybean meal) plus a vitamin-mineral premix
- ☐ All raw materials
- ☐ Other

22. If you have sows and/or young pigs, do their feed ration normally contain medication? (please mark)

	Sows	Young Pigs
Yes	☐	☐
No	☐	☐

23. If you fatten for slaughter, does the finishing feed usually contain a growth promoter?

☐ Yes ☐ No

...or more of the boxes

24. Do you make use of water medication? ☐ Yes ☐ No

25. If you farrow, at about what age do you start creep feeding? (please mark)
☐ 1st week
☐ 2nd week
☐ 3rd week
☐ At weaning
☐ Other _____

26. If you farrow, do you normally give iron to your baby pigs to **prevent** anemia?
☐ Yes ☐ No

If "yes," . . .
(a) How is the iron given? (please mark)
☐ By injection
☐ By mouth
☐ Other _____

(b) Have you changed your type or brand of iron supplement in the last twelve months?
☐ Yes ☐ No

27. Do you give a wormer to your pigs periodically for worm **prevention** or do you only **treat** them when they are known to be worm-infested? (please mark one)
☐ Worm periodically for prevention
☐ Treat known infestations only
☐ Do no worming

28. Which pig health problems were important to your business in the last twelve months? Please rank by writing "1" at the left of your most serious problem, "2" beside the second most serious, etc.

____ Aujeszky's/pseudorabies
____ Cannibalism/vices
____ Enteritis/diarrhea
____ Foot and leg troubles
____ Mastitis syndrome (MMA)
____ Parasites
____ Reproductive troubles
____ Respiratory infections
____ Stress/PSE
____ Swine dysentery
____ Swine fever/hog cholera
____ Other _____
☐ None

29. Which of the following have you used on your pigs in the last twelve months? (please mark)
☐ Antibiotic(s)
☐ Vaccine(s)
☐ Neither one

(a) If you used any antibiotics and/or vaccines on your pigs in the last twelve months, from what **source(s)** did you obtain these products? (please mark all that apply)

	Antibiotics	**Vaccines**
Medication manufacturer or distributor	☐	☐
Feed supplier	☐	☐
Veterinarian	☐	☐
Other _____	☐	☐

30. In which of the following ways do you treat your pig manure? (please mark)
☐ Solids separation
☐ Aeration/oxidation
☐ Anaerobic digestion (producing biogas)
☐ Other
☐ None

(a) If "none," do you intend to install a treatment system?
☐ Yes ☐ No

(1) If "yes," of which type? (please mark)
☐ Solids separation
☐ Aeration/oxidation
☐ Anaerobic digestion (producing biogas)
☐ Drying
☐ Other _____

31. Which of the following pig housing environmental items do you use? (please mark)
☐ Water sprinklers for cooling
☐ Power ventilation/fans
☐ Heat saving and recycling system
☐ Air deodorizing method
☐ Dust control system
☐ None of the above

32. In planning your pig housing and management, which of the following considerations are most important to you? (please rank "1" to "4," where "1" is the most important)

_____ Saving feed
_____ Saving heat and/or other energy
_____ Saving labor
_____ Saving space

please turn to back page

Please return this folder even if answered only partly.

33. How do you obtain the following housing and equipment for your pigs? (please mark for each item)

	Buy from Dealer	Buy from Manufacturer	Make My Own	Do not have or use any
Pig house(s)	☐	☐	☐	☐
Flooring	☐	☐	☐	☐
Feeding equipment	☐	☐	☐	☐
Waterers	☐	☐	☐	☐
Pens	☐	☐	☐	☐
Cages	☐	☐	☐	☐
Manure equipment	☐	☐	☐	☐
Ventilation equipment	☐	☐	☐	☐
Heating equipment	☐	☐	☐	☐

34. Which of the following of your pig business items—or any portion of them—were produced **outside** of your own country? (please mark all that apply)

- ☐ Pig housing
- ☐ Equipment
- ☐ Breeding pigs
- ☐ Health products
- ☐ Feed—complete diets or concentrates

35. Do you plan to buy any pig production equipment in the next two years? ☐ Yes ☐ No

(a) If "yes," what type(s)? (please mark)

- ☐ Feeding equipment
- ☐ Watering equipment
- ☐ Heating equipment
- ☐ Manure handling equipment
- ☐ Ventilating equipment
- ☐ Pregnancy detection equipment
- ☐ Other (please specify)

_____

(b) Please make a circle around the equipment in question 35(a) above that **needs** the most **improvement** in design, construction, or performance.

36. Do you now use, or plan to use in the next two years, a computerized herd recording system? (please mark)

- ☐ Now use
- ☐ Plan to use within two years
- ☐ Neither use, nor plan to
- ☐ Other _____

37. Where do you look for reliable information before you decide whether you will buy any particular pig health product, breeding stock, or pig production equipment or housing? (please mark)

	Pig Health Products	Pig Breeding Stock	Pig Equipment, Housing
Trade exhibitions	☐	☐	☐
Other pigman	☐	☐	☐
College or research station	☐	☐	☐

continued on the next column

37 cont.

	Health Products	Breeding Stock	Equipment, Housing
Veterinarian	☐	☐	☐
Feedmill	☐	☐	☐
Magazine articles	☐	☐	☐
Magazine advertisements	☐	☐	☐
Manufacturer's or breeding firm's salesman	☐	☐	☐
Health product supplier other than manufacturer	☐	☐	☐
Personal trial results	☐	☐	☐
Other (please specify) _____	☐	☐	☐
None	☐	☐	☐

38. In what area(s) of swine production would you like mor **informative advertising?** (please mark)

- ☐ Pig breeding/genetics
- ☐ Boar feeding
- ☐ Sow feeding
- ☐ Farrowing
- ☐ Feeding systems for finishing hogs
- ☐ Feeding systems for nursery pigs
- ☐ Limited feeding
- ☐ Waterers
- ☐ Slatted floors
- ☐ Ventilation systems
- ☐ Cages
- ☐ Other _____
- ☐ None

39. Did you visit any pig production-related exhibitions (fairs **outside** your country in the last three years? (do not include fairs held in your own country) ☐ Yes ☐ No

(a) If "yes," which pig fairs? (please mark)

- ☐ Huhn und Schwein, Hannover
- ☐ Rassegna Suinicola, Reggio Emilia
- ☐ SIMAVIP, Paris
- ☐ Salon International d'Agriculture, Pari
- ☐ VIV, Utrecht
- ☐ Other (please specify)

_____

40. What is your approximate age? (please mark)

- ☐ Under 20
- ☐ 20-29
- ☐ 30-39
- ☐ 40-49
- ☐ 50-59
- ☐ 60 or over

Thank you for returning this folder promptly. We appreciate your interest in Pig International, and I am sure this information will help us to make it even more valuable to you.

Peter Best, Editor

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